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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/632,452	08/04/2000	Jeff S. Ford	1247/A54	1645

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EXAMINER

RAHMJOO, MANUCHER

ART UNIT PAPER NUMBER

2676

DATE MAILED: 02/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/632,452

Applicant(s)

FORD ET AL.

Examiner

Mike Rahmjoo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 August 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-45 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-45 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4 recites the limitation "...wherein the video input module..." in line 1 of claim 4.

There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 21 and 23- 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Carlucci et al (US Patent 5,191,645), hereinafter, Carlucci.

As per claims 1, 23 and 44 Carlucci teaches a receiver for receiving a video signal in figure 1 through block 12; a video pipeline for post-processing the received video signal, the video pipeline producing a post-processed video signal in figure 1 through block 14; and a video output module for

converting the post-processed video signal, the video output module producing a formatted video signal in figure 2 through block 74.

As per claims 2, 24 and 45 Carlucci teaches an ancillary data injector, the injector inserting ancillary data into the post-processed video signal in figure 2 through block 34 (VTR).

As per claims 3, 4, 25 and 26 Carlucci teaches a generator locking device in figures 8 and 9 through blocks 190 and 180 respectively.

As per claims 5 and 27 Carlucci teaches e-VS is an RGB encoded video signal, an RGBA encoded video signal, a YUV-Type encoded video signal, or a YUVA-Type encoded video signal in column 3 line 48 wherein motion picture film (video) in color or black and white is received by camera processor 12.

As per claims 6- 8 and 28- 30 Carlucci teaches the received video signal is forwarded from a video input system and a video graphics processor and a storage medium in figure 1 through block 12.

As per claims 9 and 31 Carlucci teaches VS is an analog composite video signal, an analog component video signal, a serial digital composite video signal, a serial digital component video signal, a parallel digital composite video signal, or a parallel digital component video signal in column 7 lines 56- 65 wherein RGB are read out in parallel from buffers to produce three parallel data streams.

As per claims 10 and 32 Carlucci teaches the process of post-processing includes region of interest selection in column 12 lines 32- 38 wherein portion of an image is selected.

As per claims 11 and 33 Carlucci teaches the process of post-processing includes frame rate matching in column 6 lines 25- 37 wherein in order to achieve the desired four fold increase in

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frame rate each bit written into each one of the buffers has to be read out four times from that buffer.

As per claims 13 and 35 Carlucci teaches the process of spatial adaptation includes scaling in column 5 lines 54- 60 wherein the resolution is enhanced.

As per claims 12, 14, 15, 34, 36, and 37 Carlucci teaches the process of picture framing includes letter boxing and the process of spatial adaptation includes spatial adaptation and picture framing in column 12 lines 32- 38 wherein portions of images are selected and occupy distinct portion of the monitor.

As per claims 16 and 38 Carlucci teaches the process of post-processing includes changing the sample rate of the video signal being post-processed in column 3 lines 54- 60 wherein camera processor generate high definition video signal different than 1.875 fps.

As per claims 17, 18, 39, and 40 Carlucci teaches the process of post-processing includes gamma insertion and removal in column 9 lines 17- 29 wherein gamma correction is made.

As per claims 19 and 41 Carlucci teaches the process of post-processing includes color space conversion in column 8 lines 40- 52 wherein color transformation of digitized images is made.

As per claims 20 and 42 Carlucci teaches the process of post-processing includes changing frames of video data into interleaved fields of video data in column 5 line 20 through alternating frames stored.

As per claims 21 and 43 Carlucci teaches the process of post-processing includes addressing on a frame-by-frame basis the video signal being post-processed in column 5 line 9.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Carlucci in view of Olarig et al (US Patent 5,937,173), hereinafter, Olarig.

As per claim 22 Carlucci does not teach the system is a Peripheral Component Interconnect circuit board.

However, Olarig teaches the system is a Peripheral Component Interconnect circuit board in column 8 lines 2- 8.

It would have been obvious to one of ordinary skilled in the art at the time the invention was made to incorporate the teachings of Olarig into Carlucci to make dual use of signal pins on the multiple set core logic chip set which may reduce the number of overall pin count to result into reduction of manufacturing costs in column 8 lines 5- 10.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to post processing the received video signal:

US Patent 6,314,569

US Patent 5,353,119

US Patent 6,433,796

US Patent 5,900,917

US Patent 6,130,600

US Patent 6,088,045

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Rahmjoo whose telephone number is (703) 305- 5658. The examiner can normally be reached on 6:30- 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (703) 308- 6829. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872- 9314 for regular communications and (703) 872- 9314 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305- 4750.

Mike Rahmjoo

February 14, 2003


MATTHEW C. BELLA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600